

ABSTRACT OF THE DISCLOSURE

REDOX PROCESS FOR PREPARING EMULSION POLYMER HAVING LOW  
FORMALDEHYDE CONTENT

5 A process for preparing an aqueous emulsion polymer including providing  
at least one ethylenically unsaturated monomer and a free radical redox initiator  
system under emulsion polymerization conditions, the redox initiator system  
composed of t-alkyl hydroperoxide, t-alkyl peroxide, or t-alkyl perester wherein  
the t-alkyl group includes at least 5 Carbon atoms and a non-formaldehyde-  
10 forming reducing agent; and effecting the polymerization of at least some of the  
ethylenically unsaturated monomer is provided. Also provided is a process for  
reducing the residual ethylenically unsaturated monomer content of an aqueous  
emulsion polymer.

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